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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Vladimir Andreevich Bushuev
Serial No. : 09/649,431
Filed : August 25, 2000
For : PROCESS FOR PRODUCING LOW-MOLECULAR OLEFINS,
REACTOR FOR PYROLYSIS OF HYDROCARBONES, AND
APPARATUS FOR QUENCHING CRACKED GAS

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1185 Avenue of the Americas
New York, New York 10036
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Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

SECOND PRELIMINARY AMENDMENT

Prior to examination of the above-identified application, please enter the following amendments:

In the claims

Please amend claim 1 by replacing claim 1 with the following:

B. 1. (Amended) A process for producing low-molecular olefins by pyrolysis of hydrocarbons, which comprises preheating and evaporating a starting feedstock, mixing the same with a steam-diluent, heating the resulting mixture to the pyrolysis temperature in a blading rotary reactor, quenching a cracked gas and subsequent separation of it, wherein the said heating the resulting mixture to the pyrolysis temperature is performed by mixing the resulting mixture with hot pyrolyzed gas being circulated in a working cavity of the blading rotary reactor for a negligible time in comparison with a duration of pyrolysis reactions.